

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A recorded information evaluation method comprising the steps of:

optically obtaining, from an optical disc on which physical address information is recorded in the form of phase modulation of a groove wobble, a wobble signal that is affected by the groove wobble;

phase-detecting the wobble signal;

feeding the phase-detected waveform obtained by the phase detection into a low-pass filter; and

~~deciding the value of σ/T calculated from the standard deviation σ of a jitter distribution obtained from the output of the low-pass filter and the period T of a symbol clock for the phase modulation to thereby evaluate the reliability of the recorded physical address information~~

obtaining, at a clock generator, a signal indicating a period of a symbol clock for the phase modulation; and

obtaining, at a calculator, a value for evaluating the reliability of the physical address information by using the output from the low-pass filter and the signal indicating the period of the symbol clock.

Claim 2 (Currently Amended): The recorded information evaluation method according to claim 1, wherein the criterion of evaluation is set such that $[(\sigma/T)]$ the value is less than 12%.

Claim 3 (Currently Amended): A recorded information evaluation method comprising the steps of:

optically obtaining, from an optical disc on which physical address information is recorded in the form of phase modulation of a groove wobble, a wobble signal that is affected by the groove wobble;

phase-detecting the wobble signal;

feeding the phase-detected waveform obtained by the phase detection into a low-pass filter; and

~~deciding an estimated error rate calculated from the standard deviation σ and the mean μ of a distribution of amplitude absolute values obtained from the output of the low-pass filter to thereby evaluate the reliability of the recorded physical address information~~

obtaining a signal indicating a period of a symbol clock for the phase modulation by a clock generator;

decoding, at a decoder, the physical address information by using the output from the low-pass filter and the signal indicating the period of the symbol clock from the clock generator; and

calculating, at a calculator, an estimated error rate for evaluating the reliability of the decoded physical address information by using the decoded physical address information decoded by the decoder.

Claim 4 (Original): The recorded information evaluation method according to claim 3, wherein the criterion of evaluation is set such that the estimated error rate is less than $1E-3$.

Claim 5 (Currently Amended): A recorded information evaluation device comprising:

means for optically obtaining, from an optical disc on which physical address information is recorded in the form of phase modulation of a groove wobble, a wobble signal that is affected by the groove wobble;

means for phase-detecting the wobble signal;

means for low-pass filtering the phase-detected waveform output from the means of phase-detecting; and

~~means for calculating and deciding the value of σ/T calculated from the standard deviation σ of a jitter distribution obtained from the output of the means of low-pass filtering and the period T of a symbol clock for the phase modulation to thereby evaluate the reliability of the recorded physical address information~~

means for obtaining a signal indicating a period of a symbol clock for the phase modulation; and

means for obtaining a value for evaluating the reliability of the physical address information by using the output from the means for low-pass filtering and the signal indicating the period of the symbol clock.

Claim 6 (Currently Amended): A recorded information evaluation device comprising:

means for optically obtaining, from an optical disc on which physical address information is recorded in the form of phase modulation of a groove wobble, a wobble signal that is affected by the groove wobble;

means for phase-detecting the wobble signal;

means for low-pass filtering the phase-detected waveform output from the means of phase-detecting; and

~~means for calculating and deciding an estimated error rate calculated from the standard deviation σ and the mean μ of a distribution of amplitude absolute values obtained from the output of the means of low-pass filtering to thereby evaluate the reliability of the recorded physical address information~~

means for obtaining a signal indicating a period of a symbol clock for the phase modulation;

means for decoding the physical address information by using the output from the means for low-pass filtering and the signal indicating the period of the symbol clock; and
means for calculating an estimated error rate for evaluating the reliability of the decoded physical address information by using the decoded physical address information.

Claim 7 (Currently Amended): An optical disc on which physical address information is recorded in the form of phase modulation of a groove wobble and in which, by optically obtaining, from the optical disc, a wobble signal that is affected by the groove wobble, phase-detecting the wobble signal, ~~[[and]] feeding the phase-detected waveform obtained by the phase detection into a low-pass filter, the value of σ/T calculated from the standard deviation σ of a jitter distribution obtained from the output of the low-pass filter and the period T of a symbol clock for the phase modulation~~ and obtaining a signal indicating a period of a symbol clock for the phase modulation, a value for evaluating the reliability of the physical address information by using the output from the low-pass filter and the signal indicating the period of the symbol clock is less than 12%.

Claim 8 (Currently Amended): An optical disc on which physical address information is recorded in the form of phase modulation of a groove wobble and in which, by optically obtaining, from the optical disc, a wobble signal that is affected by the groove wobble, phase-detecting the wobble signal, ~~[[and]] feeding the phase-detected waveform obtained by the phase detection into a low-pass filter,~~ obtaining a signal indicating a period of a symbol clock for the phase modulation by a clock generator, and decoding the physical address information by a decoder using the output from the low-pass filter and the signal indicating the period of the symbol clock from the clock generator, an estimated error rate

~~calculated from the standard deviation σ and the means μ of a distribution of amplitude absolute values obtained from the output of the low-pass filter~~ which is calculated by a calculator using the decoded physical address information decoded by the decoder, for evaluating the reliability of the decoded physical address information is less than $1E-3$.

Claim 9 (New): A recorded information evaluation method comprising the steps of:

- optical obtaining, from an optical disc on which physical address information is recorded in the form of phase modulation of a groove wobble, a wobble signal that is affected by the groove wobble;
- phase-detecting the wobble signal;
- integrating the phase-detected waveform obtained by the phase detection;
- obtaining a signal indicating a period of a symbol clock for the phase modulation by a clock generator;
- obtaining, at a calculator, a value for evaluating the reliability of the physical address information by using the integrated output and the signal indicating the period of the symbol clock.